

**Department of Environmental Protection
Montgomery County, Maryland**

DIVISION OF SOLID WASTE SERVICES



"Oaks Landfill Gas-to-Energy Project"

***MONTHLY REPORT
JUNE 2009***



Printed on Recycled and Recyclable Paper

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OVERVIEW

Tonnage at a Glance

The following table shows key material flows during the current month, fiscal year to date (FY Total), and the current calendar month in the two prior fiscal years. (County Fiscal Year 2009 began July 1, 2008.)

FACILITY	Jun FY09	FY09 Total	Jun FY08	Jun FY07
Materials Recovery Facility ⁽¹⁾	6,911 tons	82,593 tons	6,683 tons	8,125 tons
Brunswick Landfill Facility ⁽²⁾	17,001 tons	193,287 tons	23,370 tons	24,823 tons
Resource Recovery Facility ⁽³⁾	52,540 tons	537,115 tons	59,735 tons	55,228 tons
Yard Trim Compost Facility	6,742 tons	67,928 tons	5,658 tons	4,814 tons

(1) MRF tons reported as outgoing.

(2) Refers to waste sent to the landfill for disposal (ash residue and nonprocessible waste). It does not include rubble and bulk natural wood waste that is recycled.

(3) RRF tonnage refers to tons burned (processed). Waste shipped from the Transfer Station but not burned is in the pit and is not included in the tonnage presented here. These tonnages are preliminary, with adjustments made in the September and December monthly reports.

Revenue Analysis and Systems Evaluation

During June, program staff:

- Researched properties and entered billing changes into the database;
- Continued work on the Equity Enhancement Study for Task Order #25;
- Prepared monthly house counts for collection contractors;
- Processed vacancy refunds payable in June;
- Updated Access™ databases and Excel™ spreadsheets for monthly Refuse and Recycling Collection contractor reports;
- Continued routine research and correction of solid waste fee abnormalities as they emerge in the property tax database;
- Generated Hauler/Collector Credit Account invoices for June 2009 totaling \$1,318,198.16 (a decrease of \$171,350.42 below June 2008);
- Updated the Aging Report (30-day arrearage was \$20,611.82 as of July 8, 2009);
- Reconciled June 2009 tons to monies posted in FAMIS, as well as to the total dollars charged in Paradigm;
- Prepared and mailed out the six-month hauler/collector tonnage report forms for the period January 1 through June 30, 2009;
- Continued to update and verify information in the Division of Solid Waste Services' (DSWS) Fixed Asset Database;
- Assist with ongoing implementation of the License Database system;
- Consulting Engineer submitted draft report on the inspection of the Solid Waste facilities;
- Began encumbering FY10 funds; and
- Began FY09 year-end fiscal process.

CITIZEN COMMITTEES

Dickerson Area Facilities Implementation Group (DAFIG) – DAFIG met on Tuesday, June 9, 2009. Topics discussed included the following: The future of DAFIG, DEP Complaints; deer management and non-air media monitoring. The next meeting will be held on Tuesday, September 8, 2009, at the Gothic Barn in Dickerson.

Solid Waste Advisory Committee (SWAC) – The regular monthly meeting for SWAC was held on Tuesday, June 2, 2009 in the lobby level auditorium at the Executive Office Building. The topic was School Recycling. There were thirteen SWAC members and three County staff members present. The next monthly meeting is scheduled on Saturday, September 12, 2009 at the Recycling Center in Derwood.

COLLECTIONS

New: Door hangers informing approximately 500 residents in the Williamsburg community that their successful petition to commence County provided trash service in July were delivered.

Resident Missed Collection Complaints:

June 2009	87
June 2008	161
Difference	-74

Call Center:

Calls received	7,764
E-mails received	1,542
Voicemails received	221
Bulk trash requests	2,280
Scrap metal requests	2,596
Blue bin requests	1,151
Blue cart requests	363

Public Outreach:

- **Survey Cards:**

The Public Service Workers distributed 1,575 survey cards in June and received 4.8% of the cards back.

	Excellent	Good	Average	Fair	Poor
Recycling Programs	81%	18%	1%	0%	0%
County Staff	76%	20%	1%	1%	2%
Recycling Crews	69%	26%	5%	0%	0%

The Call Center mailed out 403 survey cards in June and received 7.2 percent of the cards back.

	Excellent	Good	Average	Fair	Poor
Recycling Programs	87%	10%	3%	0%	0%
County Staff	78%	22%	0%	0%	0%
Recycling Crews	79%	14%	7%	0%	0%

- **Website Survey:**

For the month of June, 9 residents responded to our website survey. The following are percentages detailing resident satisfaction with our recycling programs, county staff, and collection crews:

	<u>Excellent</u>	<u>Good</u>	<u>Average</u>	<u>Fair</u>	<u>Poor</u>
<u>Recycling Programs</u>	68%	11%	21%	0%	0%
<u>County Staff</u>	20%	0%	20%	20%	40%
<u>Recycling Crews</u>	45%	22%	22%	11%	0%

Collections Enforcement Actions:

- Citations: Two citations were issued in the month of June.
 - 48-21 (b) did collect solid waste after 9 p.m. and before 7 a.m. within 500 feet of a residential structure. Issued to Take it away refuse.
 - 48-48 (b) Collecting or removing solid waste which was set out for collection at the curb without written consent. Issued to Edward Dearo at 12412 Needle Drive in Clarksburg.
- Notices of Violation: Four Notices of Violation were issued in the month of June.
 - 48-24 (b) improperly stored and/or permitted solid waste to accumulate. Issued to 19113 Staley Bridge Road in Germantown.
 - 48-24 (b) improperly stored and/or permitted solid waste to accumulate. Issued to 7422 Brenish Drive in Gaithersburg.
 - 48-21 (b) did collect solid waste after 9 p.m. and before 7 a.m. within 500 feet of a residential structure. Issued to J and J Refuse.
 - 48-24 (b) improperly stored and/or permitted solid waste to accumulate. Issued to 11803 Old Columbia Pike in Silver Spring.

Web Site:

The following is information gathered from the Montgomery County Solid Waste web site in June 2009:

Solid Waste Services Website

Unique Visitors	40,481
Page Loads	125,496

Email List Memberships

Topic	Members	New subscribers this month
Holiday Reminder	13,005	61
HHW Announcements	3,999	98
Newsletter Helper	2,028	53
Facility Updates	1,418	54
Electronics Recycling	1,208	92
GoGreen	366	60
Total Subscriptions	22,024	418

Live Chats

Live and email follow-ups	104
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Most Popular Web Pages

1. How to recycle/dispose of...
2. Transfer Station
3. Bulk Trash
4. Household Hazardous Waste
5. Scrap Metal Recycling
6. Curbside Recycling
7. Recycling Center
8. Trash Collection Services
9. Plastics Recycling
10. Electronics Recycling

WASTE MINIMIZATION

Product Recycled	Approximate weight recycled in June 2009 (tons)
Computers	44 tons
TVs	110 tons
Propane Tanks	1 ton
Textiles	14 tons
Construction Materials (Don't Dump – Donate)	3 tons
Vehicle Batteries	17 tons
Rechargeable Batteries	1 ton

HAZARDOUS WASTE PROGRAMS

Household Hazardous Waste (HHW) Collection – 5,432 patrons dropped off household hazardous wastes, and contractor personnel solidified 83 cubic yards of paint this month.

Small Quantity Generator/ECOWISE Program – There were 17 ECOWISE participants this month.

WASTE REDUCTION

Bicycle Recycling – “Bikes for the World” removed 1.24 tons of bikes this month for restoration and shipment to countries worldwide.

Paint Reduction – The HHW Free Paint Program gave away 750 gallons of paint to 25 patrons this month, with 4,155 gallons of paint to Honduras.

NEW ‘GOGREEN’ Website – The new *GoGreen* website, (www.montgomerycountymd.gov/GOGREEN) will be a one stop site for all environmental programs and information for residents and businesses. In June, a spike in hits to the site coincided with the GoGreen advertisements placed in the Gazette. Thus, from June 1 to June 30, there were 196 unique page views to the site.

Straight Vegetable Oil (SVO) Recycling – The Transfer Station has a vendor that accepts Waste Vegetable Oil (WVO) for the sole purpose of bio-diesel production; 1.51 tons of SVO was shipped out for processing into biodiesel in June <http://www.montgomerycountymd.gov/veggieoil>.

AIR PERMITS AND ENVIRONMENTAL PROGRAMS

Resource Recovery Facility (RRF): CEMS Tracking of RRF Emissions – The CEMS reported no instances of stack gas emissions exceeding permitted concentration limits during the month of June.

Oaks Landfill Air Emissions and Energy Recovery – SCS Engineers, Inc. continues to conduct monthly gas sampling and analysis at the Oaks Landfill under an engineering services contract. Methane concentrations were sampled fifteen times averaging 52.7 percent by volume. Those samples were taken at both blower and flare inlets once on June 5, twice each day on June 9 and 24 at both of these locations, plus twice each day on June 27 and 28 at the blower inlet only. All same-day measurements were each at least one hour apart except for June 27, which measurements were identical. Gas flow rates, measured once at the flare inlet on June 5 and once again on June 9 averaged 873. On June 24, with one of the newly commissioned LFG engines operating at full load, the gas flow rate to the flare inlet dropped to 310 scfm.

TES Contract (Weather Station) – All of the instrumentation worked normally in June. Data recovery for all parameters was 100 percent for the month. The total rainfall for the month was 4.07 inches.

WASTE REDUCTION AND RECYCLING

Public Education and Outreach – Work continues on revising existing educational materials. A series of recycling print ads to serve as a reminder to residents about what can be recycled both at the curbside as well as at Solid Waste Transfer Station/Recycling Center will continue to run through June in the Gazette and in several Spanish language publications. The summer issue of the Civic Loop newsletter was mailed to business, community, and civic groups at the end of June. Staff assisted with the electronics recycling collection event held at Bethesda/Chevy Chase High School on June 7. Almost 700 vehicles and walk-ins dropped off 81,400 pounds of electronic items for recycling. DSWs staff is coordinating with staff from the Tiger Woods Foundation and their vendors to ensure that recycling containers are in place for participants and players during the upcoming AT&T National golf tournament that will be held July 1-5, 2009. DSWs staff will be conducting daily trainings for temporary employees whose responsibilities include monitoring and emptying refuse and recycling containers.

On-Site Composting and Waste Reduction Activities – In June, a total of 108 compost bins were distributed to encourage residents to compost their leaves and grass clippings on-site. For FY 2009, the Division distributed a total of 5,802 compost bins, compared to 5,503 compost bins distributed in FY 2008. Staff conducted two composting demonstrations and presentations in June at the Meadowside Nature Center in Rockville and at the Whole Foods in Kentlands.

Recycling Investigations Unit Enforcement Actions – Since the unit was established, 21,771 site visits and 2,793 formal investigations have been conducted. In June, 29 NOVs were issued to businesses and multi-family properties for infringements against the recycling regulations and Chapter 48. Three (3) citations were issued to businesses for failure to recycle required materials and failure to provide and maintain an approved container for the storage of solid waste.

Commercial Recycling and Waste Reduction – The SORRT Program conducted 885 on-site visits of businesses in June and surpassed its annual goal to visit 10,000 businesses a year by conducting a total of 11,057 site visits during FY 2009. Staff resolved four complaints, participated in eight events reaching 496 people and responded to 65 requests for information ranging from educational materials to presentations for property managers, tenants, and employees. Staff delivered 1,170 desk-side recycling containers to help businesses start or improve their recycling programs. Work continues on field verifying Calendar Year 2008 Annual Business Recycling and Waste Reduction Reports to ensure the information submitted on the reports is accurate. The fourth issue of the quarterly SORRT Network Newsletter will be mailed by mid-July. Work has been completed on several other task orders including developing a brochure on setting up

recycling programs at special events, and completing waste audits of five selected business types.

Multi-Family Recycling and Waste Reduction – The TRRAC Program conducted 324 on-site visits to multi-family properties in June to monitor the status and progress of their recycling programs. Staff participated in 5 multi-family property educational events reaching 156 people. Staff also responded to 25 requests for information, resolved three resident concerns and distributed 825 multi-family recycling bins. Staff continued to field verify the Multi-Family Annual Recycling and Waste Reduction Reports covering Calendar Year 2008 to ensure the information submitted on the reports is accurate. The June and July editions of the multi-family recycling newsletter were mailed to 754 multi-family property representatives. The new video to educate multi-family residents on recycling, waste reduction, and buying products made with recycled content was finalized, as were a new multi-family children's recycling activity booklet; a new recycling brochure for Spanish-speaking residents; a new series of posters for multi-family recycling collection areas to educate residents on how to recycle commingled materials, mixed paper, and scrap metal; and revisions to existing educational materials. The draft report on the survey of multi-family property residents to ascertain awareness, perceptions and participation in their recycling efforts was reviewed and revised.

Mixed Paper Recycling – Existing educational materials were distributed to residents at several events. Larger quantities of materials were also provided to homeowner associations and civic groups for their use and distribution.

Volunteer Activities – Ten volunteers provided nearly 28 hours of their time to support recycling activities in June. Two volunteer recycling block captains contributed three and a half hours of time disseminating information about recycling, grasscycling and composting to their neighbors in Bethesda and Rockville; six volunteers contributed almost sixteen hours of time at four outreach events; one lead volunteer provided two and a half hours of time at an outreach event and one volunteer contributed six hours of office assistance. The annual Recycling Volunteer Recognition and Appreciation Ceremony was held on June 3. Forty-four volunteers attended the ceremony along with their family and friends and were recognized for their contributions to the recycling program. Eighteen new volunteers participated in a volunteer orientation session on June 25. Two volunteers participated in a composting training session on June 13 to learn how to educate residents about backyard composting. The Recycling Volunteer Program recruited seven new volunteers and seven prospective volunteers in June. Nine hundred copies of the spring issue of the Recycleletter were delivered to local libraries for distribution.

PILOT PROGRAMS

Cooperative Collection/Alternative Collection – The SORRT Program continues to monitor the Cooperative Collection Projects in Silver Spring to ensure that the participants are recycling properly. No major issues arose during June.

FACILITY ACTIVITIES

Resource Recovery Facility (RRF) – The RRF processed a total of 52,540 tons, or 1,751 tons per day. Trash deliveries averaged 11,312 tons per week. On June 1 load on all units were reduced to find and repair a condenser tube leak on the main turbine condenser. On June 14 unit #1 was removed from service to repair an external economizer inlet tube leak. While the unit was off line an area of the superheater was identified as needing attention and repairs were performed.

There were no OSHA recordable incidents this month.

There were no generation emergencies issued by PJM during this month. There was no need to purchase power during the month.

The following environmental activities occurred:

- Submitted the May 2009 Water Supply Monthly Operating Report to MDE.
- Submitted the Risk Management Plan (RMP), certification statement, and electronic submission file to the RMP Reporting Center. EPA notified the facility that the RMP was complete.
- Jim Wagner from MDE performed a quarterly solid waste inspection. The inspection indicated full compliance with the Refuse Disposal Permit.

Materials Recovery Facility (MRF) – Approximately 2,018 tons of commingled material were shipped out and approximately 4,893 tons of mixed paper were loaded out and transferred to the Office Paper Systems, Inc. processing facility in June 2009. The Recycling Center has been selected to receive the Solid Waste Association of North America's 2009 Recycling System Silver Excellence Award. Painted all the conveyor systems transporting glass. Painted the administrative area and tiled the floor. Added landscaping, new recycled plastic benches and new recycled plastic picnic tables on the west building front. Replaced the duct smoke detectors. Replaced the clapper valves in the dry pipe sprinkler system. Replaced the conveyor chain and cross-members on the conveyor bringing material from the pre-sort station to the steel magnet. Provided the sorting site for the spring waste composition study.

Oaks Landfill – On behalf of the Northeast Maryland Waste Disposal Authority (NMWDA) and the Division of Solid Waste Services (DSWS), SCS Engineers, Inc. (SCS) is proceeding with and has nearly completed with the LFGE Project. Activities during June 2009 include final electrical wiring and commissioning of equipment, final communication wire connections to the Verizon Central Office and Pepco Substation and obtaining permission to parallel (i.e. produce) power to the PJM power grid. Power was generated to the PJM grid near the end of the month during performance and emissions testing. The remote metering capability for PJM through the Comcast data line is not yet installed. Final equipment troubleshooting is on-going.

Gude Landfill – On behalf of NMWDA and DSWS, SCS is proceeding with and has nearly completed the LFGE Project. Activities during June include final electrical wiring and commissioning of equipment, final communication wire connections to the Verizon Central Office and Pepco Substation and obtaining permission to parallel (i.e. produce) power to the PJM power grid. Power was generated to the PJM grid near the end of the month during performance and emissions testing. The remote metering capability for PJM through the Comcast data line is not yet installed. Final equipment troubleshooting is on-going.

The Yard Trim Processing Facility Project and all related activities have been placed on hold pending development of the Gude Landfill Remediation Plan.

DSWS continues to provide information to the Community and MDE regarding on-going and future proposed activities at the Landfill. To date, documentation regarding the following items was submitted to MDE and the Community:

- Stormwater Discharge at Outfall 006.
- Leachate Seep Repair and Stormwater Management Repairs.
- Landfill Gas Monitoring Plan and Amendments No. 1 and 2 to the Plan following MDE comments. The Plan was approved by MDE on April 22, 2009.
- Groundwater and Surface Water Monitoring Plan was approved by MDE on May 11, 2009.
- The Remediation Approach was approved by MDE on May 27, 2009.

The first regular monthly meeting with the Community and DEP/DSWS was held on June 11, 2009. The next meeting is tentatively scheduled for Thursday, July 16, 2009.

Solid Waste Transfer Station – Covanta shipped 48,980 tons of processible waste via rail from the Transfer Station to the RRF; 3,153 fewer tons than shipped in June 2008.

The inbound radiation detectors had 19 alarms – 2 false alarms (alarms that could not be re-verified); 4 alarms involved a driver or passenger who had undergone recent medical tests and/or treatment involving radioactive isotopes and residual radiation; and 12 alarms by vehicles that were identified as containing low levels of medical isotopes with short half-lives in trash. One load was rejected because the radiation was over our acceptable levels, the load sat in our lower lot for nearly 3 weeks until radiation levels diminished and we were able to dump it.

The Public Unloading Facility radiation detectors had 9 alarms. All alarms involved drivers or passengers who had undergone recent medical tests and/or treatment involving radioactive isotopes and residual radiation.

Transfer Station Enforcement – Under Chapter 48 of the Montgomery County Code, a total of 40 enforcement actions were taken during the reporting period. The enforcement composition breakdown includes: 15 citations, no NOVs, and 1 verbal warning issued for expired or outdated collectors' tags; 3 citations and 8 NOVs were issued for unlicensed hauler or collector; 1 citation, 6 NOVs, and 1 verbal warning were issued for cardboard

mixed with waste for disposal; No citations issued for illegal dumping of solid waste; 1 NOV and 1 citation were issued for operating a collection vehicle without a tight-fitting cover; and 1 verbal warning and 2 citations were issued for an unlicensed truck of a licensed company.

Site 2 Landfill Properties – Repairs continue on the barn on the Draper Farm. Design work continues on the Site 2 ponds.

Yard Trim Compost Facility – The facility received 6,742 tons of material for composting; this compares with 5,658 tons of material received during the same period last year. No material was diverted to back-up composting facilities. There were 3,647 cubic yards of bulk LeafGro™ shipped this month; compared with 2,960 cubic yards for the same period last year. There were 2,703 cubic yards of Linden Farm Humus sold; this compares with 426 cubic yards for the same period last year.

Bagging Operation – 22,750 bags of LeafGro™ were shipped to distributors. This compares with 21,350 bags shipped during the same period last year. (Each bag is 1.5 cubic feet weighing 45 lbs.)

During this month, 190 1-cubic foot bags of LeafGro™ were sold. This compares with 90 bags during the same period last year.

In June, 300 bags of Compro™ bags were shipped to distributors. This compares with 400 bags during the same period last year.

OUT-OF-COUNTY HAUL

Brunswick County, Virginia – Approximately 15,173 tons of ash residue and 1,828 tons of nonprocessible waste were transported to the County's dedicated disposal cell at the Brunswick Waste Management Facility, Inc., Landfill in Brunswick County, Virginia.

Perry Hall Maryland – Approximately 6,053 tons of asphalt, soil, concrete, and brick and block were sent to the Honeygo Run Recycling site in Perry Hall, Maryland, for construction and demolition recycling in the month of June. This recycling site was added due to Republic Waste acquiring Allied Waste which broadens our options in the Out of County Contract with Allied Waste, now Republic. This site is beneficial to Montgomery County because it is much closer than the Brunswick Waste Management Facility Landfill, and we are able to recycle more types of materials. In the past, we used the Recycling Center in Laurel, Maryland, which takes fewer types of construction and demolition materials for recycling. Now we can transport more tonnage per load and additional materials to Honeygo Run and decrease our landfill waste.

GENERAL INFORMATION

Important Telephone Numbers

General information on solid waste	240-777-6400
Customer Service	240-777-6410
Transfer Station	240-777-6560 (County Office) 301-916-3031 (Covanta) 301-330-2840 (MES)
Materials Recovery Facility	240-777-6591 (County Office) 301-417-1433 (MES)
Resource Recovery Facility	240-777-6494 (County Office) 301-916-3031 (Covanta)
Yard Trim Compost Facility	301-428-8185 (MES)
Internet for DSWS	www.montgomerycountymd.gov/solidwaste www.montgomerycountymd.gov/recycling www.montgomerycountymd.gov/hazardouswaste www.montgomerycountymd.gov/useitagain www.montgomerycountymd.gov/yardtrim www.montgomerycountymd.gov/veggieoil www.montgomerycountymd.gov/GOGREEN

Note: All comments, questions, and suggestions on the contents of this report should be addressed to:

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SOLID WASTE FACTS IN A NUTSHELL

TOPIC OR FACILITY	
Latest Tonnage of Materials Recycled in a Fiscal Year in Montgomery County	553,501 (FY08)
Latest Recycling Rate Reported in Montgomery County	44.3% (FY08)
Recycling Goal	50% by December 2010
Resource Recovery Facility (RRF)	Permitted Capacity = 657,000 tons per calendar year (based on 5,500 BTU/lb waste)
Yard Trim Compost Facility	<p>Under the Sugarloaf Settlement Agreement, operations are limited to the receipt of 77,000 tons per fiscal year.</p> <p>In FY09, 67,928 tons of yard trim were received at the Dickerson Facility.</p>
# Residences receiving trash collection by County contractors	90,332
# Residences receiving collection of recyclables in blue bins and yard trim collection	209,948
Term of out-of-county waste transportation and disposal contract with Brunswick Waste Management Facility, Inc.	June 19, 1997 through June 30, 2012 with an option for a five-year renewal. (Service started October 20, 1997.)

GLOSSARY OF ACRONYMS

BDC	Building Design Construction
BTU	British Thermal Unit
CEMS	Continuous Emissions Monitoring System
CNG	Compressed Natural Gas
DAFIG	Dickerson Area Facilities Implementation Group
DEP	Department of Environmental Protection
DSWS	Division of Solid Waste Services
DGS	Department of General Services
EPA	United States Environmental Protection Agency
FY	Fiscal Year
HHW	Household Hazardous Waste
LFGE	Landfill Gas to Energy
LN TM	Low NO _x TM
MCPS	Montgomery County Public Schools
MDE	Maryland Department of Environment
MES	Maryland Environmental Services
M-NCPPC	Maryland-National Capital Park and Planning Commission
MRF	Materials Recovery Facility
MSW	Municipal Solid Waste
NMWDA	Northeast Maryland Waste Disposal Authority
NOV	Notice of Violation
OMB	Office of Management and Budget
OSHA	Occupational Safety & Health Administration
PJM	Pennsylvania-New-Jersey-Maryland
RFP	Request for Proposal
RRF	Resource Recovery Facility
SCFM	Standard cubic feet per minute
SCS	SCS Engineers, Inc.
SORRT	Smart Organizations Reduce and Recycle Tons

SWAC	Solid Waste Advisory Committee
SVO	Straight Vegetable Oil
TG	Turbine Generator
TRRAC	Think Reduce and Recycle at Apartments and Condominiums
WVO	Waste Vegetable Oil